EATON Transformer Module
Quick Start

Standard Features

- When used with standard system, EATON Transformer Module provides isolated and Step-down 120/208/240 V AC outputs.

- Multiple Output receptacles: 120/208/240 V AC.
STEP 1 EATON Transformer Module Unpacking and Parts Check

EATON Transformer Module Box Contents

- EATON Transformer Quick Start Manual
- Warranty and Product Registration
- Tower Stand Extenders
- Stabilizer Bracket (4 screws included)
- Transformer Cable: 610 mm / 24 inch
- Transformer Rail Kit

STEP 2 EATON Transformer Module Tower Configuration (with EX RT only)

Tower Configuration of Standard System with Transformer Module

- Transformer Module
- Power Module
- Battery Module (up to 6)
STEP 3 Rack Configuration

See EX RT 5/7/11 or 9140 UPS Systems Installation and User Manual for details.

A. Prepare the power module front panel logo and LCD display for rack orientation. Apply to all modules (Power Module shown).

Stack-up sequence in Rack configuration

EX RT UPS

1. EATON Transformer Module (Top)
2. POWER MODULE (upper, EX RT 5/7/11)
3. BATTERY MODULE (lower, EX RT EXB 5/7/11)
4. BATTERY MODULE (bottom, EX RT EXB 5/7/11)

(Shown with power module and 2 battery modules)

9140 UPS

1. EATON Transformer Module (Top)
2. 9140 UPS
3. EBM
4. EBM

B. EATON Transformer Rack Installation

1. Attach both front mounting ear brackets to module with supplied screws. (For this step, it is possible to adjust the position of both front mounting brackets.)
2. Attach rear support brackets to module. These brackets prevent the module from sliding out of the rack.
3. Attach rails together and secure with wing nuts, and finger tighten. (both sides).
4. Attach both rails to rear and front of rack with supplied flathead screws (as shown).
5. Use caution when sliding unit into rack. Temporarily secure unit to rack with thumb screws on front mounting brackets.
6. Secure rear support brackets to rails.
STEP 4  Setup and installation

**Rear Panel of the optional Transformer Module**

- Load 3: 1 NEMA L6-30R, 208 Vac
- Load 2: 4 NEMA 5-15/20R, 120 Vac
- Load 2 Circuit Breaker
- Load 3 Circuit Breaker
- Load 1 Circuit Breaker
- Load 1: 1 NEMA L6-30R, 208 Vac
- Load 4: 4 NEMA 5-15/20R, 120 Vac
- Load 4 Circuit Breaker
- Transformer Protect Breaker
- Transformer I/O Box
- AC Input
- Main Output Circuit Breaker
- AC Output

**Simplified Connection Diagram**

- UPSTREAM CIRCUIT BREAKER (NOT SUPPLIED)
- Bypass AC
- Normal AC
- Transformer Module
- To Load

**Electrical Characteristics**

- Nominal power: 11 kVA
- Nominal current: 63 A
- Input voltage: 208-240 Vac
- Output Voltage: 120/208/240 Vac
- Frequency: 50/60 Hz ±10 %
- Isolation (EN 61558-1-2-4): 3.75 kV / 5 M ohms
- Operating temperature: From 0° to +40 °C
- Max. operating rel. humidity: 95 %
- Derating/altitude: Pn-10 % > 1000 m
STEP 5 Systems Connections with EX RT UPS

EATON Transformer Module, Power Module, and Battery Module Connections

System Connections with Transformer Module

1. Check that the battery circuit breaker is OFF ("0") position.

2. Connect the battery power cable to the connectors of the power and battery modules.

3. Connect the battery detection cable between connectors of the power and battery modules.

4. Turn on battery module circuit breaker, power module, I/O Box, circuit breaker, and Transformer Module Main Output Circuit Breaker.

5. Push ON button on the Power Module for more than 3 seconds.

WARNING To avoid overloading 120 VAC output windings, distribute loads evenly between Load 2 and Load 4 (on rear of Transformer Module) and between 120 VAC output terminals (Lb-N, La-N.)

Connection Diagram (bottom of Transformer I/O Box)

Transformer Module Terminal block capacity: maximum 4 AWG solid or stranded wire on transformer module.

See EX RT 5/7/11 Systems Installation and User Manual for initial start-up procedures.
STEP 6  Systems Connections with 9140 UPS

EATON Transformer Module, 9140 UPS, EBM connections

System Connections with 9140 UPS

1. Check that battery breaker is on OFF position.
2. Connect the battery cable between EBM and UPS,
3. Connect power cables to the UPS and transformer module.
4. Turn on battery module circuit breaker, UPS output circuit breakers, transformer module main Output Circuit Breaker.
5. Start UPS.

Connection Diagram (right of Transformer I/O Box)

Transformer Module Terminal block capacity: maximum 4 AWG solid or stranded wire on transformer module.

See 9140 UPS Installation and User Manual for initial start-up procedures.